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It is also a complete catalog of BODDING-TON'S QUALITY SEEDS, BULBS and ROSES. This Guide is full of helpful gardening hints.



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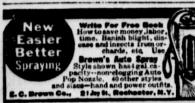


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SWEET PEAS

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FREE To every purchaser of this collection we will send our introductory collection of FLOWER and VEGETABLE SEEDS, consisting of three packets of Choice Vegetable Seeds and three packets of Beautiful Flower Seeds: also our Illustrated Garden Book for 1914.

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How to Grow Fruit FREE

Watermelon

Write to-day for our book-more than a catalogue. Tells what to to to-day for our book—more than a catalogue. Tells was to the in your locality. How to plant, how to trim, spraying, as well thing you the choicest varieties of apples, peaches, cherries and "Wood Quality" stock. Cost you about half agents' we will send this book absolutely free.



THE PHLOX.

as a frequent memento of its unfor-tunate discoverer." The word phlox signifies flame, and is applied to this genus in allusion to the flamelike form of the buds. The phlox has undergone constant improvement since its discov-ery, and the illustrations of this flower published tweny-five years ago, beautiful as they were then, bear but little resemblance to the beautiful and almost

perfect flowers we now possess.

No annual excels the phlox for a brilliant and constant display. If confined to one plant for the decoration of the can be worked, with successive sowings, held at the Crystal Palace, London asters.

The colors of the phlox range from

Seed may be sown in the open ground in May or in a cold frame or bot bed earlier in the season, and in either case from June during the whole summer and autumn they will make a brilliant bed of showy and delicate flowers.

There are two varieties, one quite dwarf, growing only about eight inches high, and the grandiflora, about eighteen inches high, but as the stems are not stiff they do not stand entirely erect. A foot apart is near enough to plant them, unless the soil is poor. Planted too close they are subject to mildew.

Average Vitality of Seed. The figures in the column to the left into it a covering of well rotted stable indicate the average number of seeds manure and a quantity of leaves if they manure and a quantity of leaves if they umn to the right indicate the average number of years that the seeds retain their vitality.

	Artichoke	800	
	Asparagus	750	
ш	Beans, bush	50	
ш	Beans, pole	25	
10	Beet	750	
ш	Borecole or kale	5,000	
ч	Broccoll	5.000	
н	Brussels sprouts	5.000	
п	. Cabbage	5.000	
и	Carrot	10.000	
	Cauliflower	5.000	
	Celery	40,000	
ш	Chicory	10,000	
н	Corn	150	
п	Cress	7,500	
	Cucumber		
п	Eggplant	5.000	
	Kohlrabi	6,000	
ш	Leek	6,000	
п	Lettuce	10,000	
	Muskmelon	600	
_	Watermelon	100	
	Okra	450	
	Onion	5,000	
_	Parsley	5,000	
7	Parsnip	4,000	
1	Peas	40	
1	Pepper	2,000	
4	Pumpkin	125	
_	Radish	2,000	
П	Rhubarb	1.000	
	Salsify	2,000	
	Spinach	1,500	
0	Squash	100	
-	Tomato	10,000	
	Turnip	5.000	

AVERAGE TIME OF SEED TO GER-

And Plants to Mature.

The first column of figures gives the average time for seeds to germinate. Much depends of course upon the condition of the weather and the soil. The second column of figures gives the average number of days for the vegetables

at different times. Artichoke 12 to 20 Asparagus 18 to 30 Beans, bush 4 to 8 Beans, pole . . . 4 to 8 4 to 8 4 to 8 7 to 15 35 to 4 150 to 200 90 to 100 100 to 120 150 to 200 50 to 70 Cress Endive..... Kohirabi

The greatest number of plants from a given number of seeds will be obtained by planting in pots and earlier plants and flowers may thus be secured. Sow the seeds an inch deep and place them in a cold frame, or and stand in a window, the plants being transferred to the open ground when they are from four to six inches high.



turbance by carefully knocking the ball ports must be used at this stage. Brush

Select a location where the plants will have pienty of light and air at all times, with a little shade from the midday sun of July and August. The hot summer sun shortens the blooming period and causes the colors to fade.

Frequent but extremely shallow cul-tivation should be given sweet peas and they should not be allowed to suf-Mme. Caroline Testout. Mme. Segond Weber—Rosy salmon, Maman Cochet—Deep rose pink. A for for the lack of water. Watering should not be done until it is absolutely then could theroughly vigorous grower and a very free flow-

seed pods picked off as fast as they

What to avoid _ Roots

were selected for exhibition. The va

ROSES.

Continued from Sunday, February 22.

By WILLIAM TRICKER.

have given very satisfactory re-

sults and I recommend them with con-

frames during the winter.

Mrs. Taft or Prince de Bulgarie.

Salmon pink, of fine shape.

Kaiserin Aug. Victoria.

Killarney, Double-

continuous bloomer.

good forcing variety.

Gen. MacArthur.

Killarney.

growing rose.

red flower; a splendid grower.

F. R. Patzer-Very free flowering

Freiherr von Marschall--A big double

Gruss an Teplitz.

Jonkheer Mock—A very tall pink, one

-Pink: new.

of the tallest and best bedding roses.

shade or two lighter than the original.

vet introduced to our climate. A brill-

ant carmine. Large, fragrant and a

of the freest in the tea section in the

(F) Mrs. George Shawyer-Bright

peach pink. A free blooming and strong

My Maryland-Beautiful pink. Popu-

(F) Radiance-Deep rose, handsome

lar for outdoors and for forcing.

Prince de Bulgarie.

continuous production of flowers.

I have marked F.

on each stem.

under glass.

growing stocks.

Phlox drummondii was discovered about seventy-five years ago in Texas by a botanical collector by the name of Drummond, sent out by the Glasgow Botanical Society. It was one of the last plants he sent home, as he died in Cuba, which he visited on his way home. Sir W. J. Hooker named this species drummondii, "that it may serve as a frequent memento of its unfor-



lawn or border it would probably be according to the quantity of blooms a choice between the phlox and the new required.

The first prize of £1,000 (\$4.866.66) was a choice between the phlox and the new required. The best soil for sweet peas seems Manse, Sprouston, Kelso, England. to be a good rich, light loam. Heavy Thirty-eight thousand bunches of

the purest white to the deepest crim-son, including purple and striped, the or enriching heavily with old, well bunches were selected for exhibition. The clear eye of the phiox being peculiarly rotted manure. Work the ground deeply, varieties in Mrs. Frazer's exhibit were:



SWEET PEAS.

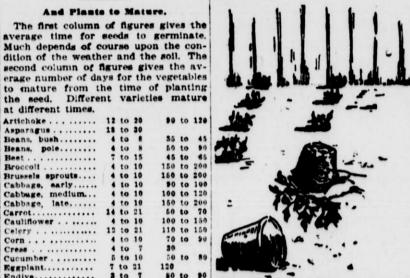
NUMBER OF SEEDS TO THE OUNCE last July we recommended trenching, carefully removing the top soil for a spade depth and laying it aside, then are to be had, then replacing the top soil, at the same time making it light by working in a liberal quantity of manure. This treatment gives a depth of about two feet to the prepared soil. As the result of another year's obser-



How to sow in Autumn _thickly in trenches, and earth up to the dotted lines as growth increases

ground to a depth of three feet where the very best results are desired. The deeper the soil the longer the plants will flower. Tramp the soil down firmly with the feet after the seeds have been

Sow in drills two inches deep and nine inches wide, scattering the seeds very thinly and evenly along the drill and cover with fine soil. The rows should be five feet apart. Thin out the plants so they will stand six inches



Planting out from pote_ the simplest method. But If not sown too thickly, the plants may be put out singly.

The roots may be planted without dis-



of earth out of the pot and dropping it into a hole made with a trowel. Supmakes the best support, although poul-try wire and old tennis nets make good

foliage. (F) Sunburst-A new yellow. William R. Smith—A fine summer dder; creamy white, shaded with White Maman Cochet-One of the best white bedders.

leaves infested to a greater or less extent with mildew and other diseases. The present day landscape artist is getting away from the hybrid perpetual and using the type known as hybrid tea roses. This type also gives us our best indoor roses for forcing, and their chief merit, aside from the fact that they are not quite so strong growing as the hybrid perpetual, is that they will give a succession of flowers from the middle of May until cut down late in October

by heavy frosts.

This perpetual blooming habit has endeared the hybrid teas to all rose lovers, whether the room for rose growing be large or small. The following list is lant pink; blooms large; the budy long selected as being reasonable in price, and pointed. uous flowering qualities and will give the purchaser more pleasure than any other type of rose ever grown.

Yellow.—Sunburst, Harry Kirk, Duchess of Wellington, Betty, Rayon d'Or, the Lyon, Mrs. Aaron Ward and Lady Hillingdon.

The above are different types of yellow, some shading to deep orange. others giving more gorgeous combinations of pink and orange, shading in the bud gradually down to a dazziing yel-low. Such a rose as Rayon d'Or, with its glossy mildew proof foliage and its buds streaked in the most marvellous manner with pink and orange, is a revelation to the present day rose lovers. Sunburst also, which created a wonderful record for itself as an indoor forcing rose, has proved itself worthy of a place in every garden. In the pink section my selection would

be as follows: Mrs. George Shawyer, Killarney Caroline Testout, Lady Alice Stanley, Jules Grolez, W. R. Smith and Ra-

Of the pink varieties Radiance is per

haps the best known among the amateurs. It is a true American seedling and does marvellously well under our trying conditions. Mrs. George Shawyer, which is also a graduate from the too crowded. Thin out forcing houses, as is the Radiance mentioned above, is an English variety when four inches high Given enough water, I question if any rose of any color will produce as many flowers grown under outdoor conditions rieties in Mrs. Frazer's exhibit were: as this wonderful variety. Paradise Carmine, Constance Oliver, Jules Grolez has been under cuitiva-Oliver, Arthur Unwin, Tom Bolton, tion with us for twelve or more years tion with us for twelve or more years, They won because they were the best but not yet has it attained the degree grown, best in size, color and condition of popularity its merits entitle it to and because they carried four flowers Of the others W. R. Smith is valuable because it will give flowers outdoore later than any other pink variety I know of. We have picked beautiful flowers from this variety on Novem-

ber 8 from plants growing in exposed My selection of white and light colored **varieti**e would be

In the cultivation of roses under glass the same general principles are to be observed as in the open air. Later Mme. Sherman Crawford and Kaiserwe will take up the subject and give in Auguste Victoria. explicit directions for growing roses Druschki is the only variety that does not classify under the heading of "Hy-

Roses are propagated by cuttings and by budding on strong wild perpetual, though it is more continuous flower than the usual varieties of As to the selection of the twenty- that character. It is in all respects four best roses, we put this question a wonderful rose and we cannot afford to the leading growers of rose plants, and their replies are given below. to ignore it. While on this subject of white roses and Druschki, there is a new white rose for outdoor cultivation being placed on the market this year, 'Mrs. Andrew Carnegie," named after The following is a list of roses that the wife of the Ironmaster. When we I have tested in the neighborhood of read it is an improved Karl Druschki, Arlington, N. J., and New York city, its parent, it certainly must be a marits parent, it certainly must be a marvellous rose. Kaiserin Auguste Victoria and White Killarney are never

These are on their own roots. Red varieties of my selection would

not budded or grafted, and with one or two exceptions are hybrid tea roses, two years old, field grown, lifted and read: Gen. MacArthur, Gruss an Teplitz and potted last autumn and kept in cold Richmond. Gruss an Teplitz is a per-fect mass of bloom for five months of As I do not force roses in the winter the year

season I can only mention such as I Hybrid tea roses love to be punished. happen to know from past experience that is, the closer the flowers are cut and those now in the market. These off every day, the more profuse will be the bloom. Several of the above mentioned varieties have proved their worth Antoine Rivoire-Large and full, of perfect form; flesh tints with orange centre and cornine edge. This is not for forcing, Sunburst and Mrs. Aaron Ward being the best forcing yellows. Shawyer, Killarney and Radiance oc Etoile de France-Vigorous in growth cupy premier positions in pink; Richmond in red, and White Killarney in and strong constitution; has few thorns;

white. By Henry A. Dreer.

If we were to plant two dozen roses in the vicinity of New York, for our own enjoyment, we would select the following varieties:

Twelve hybrid perpetual: Baron de Bonstettin-Velvety black ish crimson; very large, double, fragrant; a strong grower.

Baroness Rothschild-A superb of pale satiny rose, very large. Captain Christy-Delicate flesh, tinted white, a large full flower of good form; Laurent Carle-The best hybrid tea

very free flowering. Frau Karl Druschki-This is the ideal hardy white rose, pure in color, perfect in form; strong grower and re-Lady Hillingdon (Tea)-Yellow. One markably free flowering, superb in every way.

General Jacqueminot-Brilliant scarlet-crimson; an old favorite and one of the best known roses in cultivation; (F) Mrs. A. R. Waddell-Rosy scarlet opening coppery salmon, Strong grower, free flowering. does well everywhere.
Gloire Lyonnaise—White, tinted with

yellow; large, full and of good shape; very distinct and pleasing. with carmine; a beautiful rose, and a strong, vigorous grower; one of the

Mme. Sherman Crawford-Deep rosy pink, outer petals shaded with pale Mrs. John Laing-Soft pink, of beau-

among fine roses. Paul Neyron-Dark rose of enormous size, perhaps the largest of all.

Fashions in rose gardens, as in every. grower and always does well.

Twelve hybrid tea roses: Caroline Testout—One of the most popular bedding varieties; large full globular flower; bright satiny rose;

brighter centre; free and fragrant, Mrs. Aaron Ward-A distinct shade of Indian yellow, more decided in dry weather; the yellow shading sometimes disappearing almost entirely in extended periods of wet, cold weather; one of the freest flowering varieties.

Gruss an Teplitz-Rich scarlet, shading to velvety crimson; very fragrant; free strong grower and in bloom all the time. Gen. MacArthur - Rich crimson-

scarlet; clean, healthy, vigorous grower, producing sweetly scented flowers of good double form in great profusion even under the most unfavorable weather conditions.

Killarney—One of the most popular garden roses, also one of the leading

varieties for winter cut flowers; perfectly hardy; strong robust grower Lady Ashtown-Free flowering and

produces perfect bloom under all weather conditions. Flowers large, double and with high pointed centre, produced on long stems; splendid for cutting. Color a soft rose, shading to yellow at the base of the petals. Mme. Leon Pain-Entirely distinct

in color, a silvery salmon, with deeper orange yellow, shaded centre, the reverse of the petals being a salmony pink; flowers large, full and well formed; very free flowering. Mme. Ravary-Should be in every

collection on account of its distinct color, which is of a rich, deep nankeen yellow, becoming lighter as the flower expands. The flowers are of splendid form, full, double and very Prince de Bulgarie-Large full double

flowers of splendid form, of a silvery flesh color, deepening to the centre, and delicately shaded with salmon rose, color combination that pleases every Viscountess Folkestone-One of the

first hybrid teas introduced, and still the best of its color, which is a creamy pink, shading deeper at the centre; large, full and very free. Mrs. Wakefield Christie Miller-En-

tirely distinct, the petals having wavy or crimped edges; the flowers are very large and full double, of a soft pearly blush shaded salmon; the outside of the petals a clear vermilion rose; an attractive color combination. Habit of for digging considerably in advance of plant vigorous, free and perpetual flow- eyes planted in the ordinary manner. ering. Duchess of Wellington-A grand rose

intense saffron yellow sained with crimson in the first stage, which, as the flowers develop, changes to a deep, coppery, saffron yellow. Flowers fairly full, resemble Killarney in shape, but the petals are larger and of greater substance. Delightfully fragrant and free On the twelve hybrid perpetual

roses winter protection is not abso-uitely necessary, but the hybrid tea early Ranere will yield ripe fruit in varieties must be protected, and we June of the same year. would prefer to protect both collections. Our method would be about the 15th ney, White Cochet, Prince de Bulgarie, or 20th of November, or on the approach of cold weather, to make a mound of soil at the base of each plant from luminator, a beautiful scarlet is described eight to twelve inches high, covering this mound of soil with evergreen branches if conveniently obtainable. If not, a couple of inches of leaves or long littery manure. All of this can be removed about March 20. The plants should then be pruned and will be ready to give returns.

We at all times give preference to budded or grafted plants. These in planting should be set at such a depth that the point at which they are budded or grafted is from one and one-half to two inches below the surface of the When so planted it is but rarely that a wild sucker appears.

Our preference for the budded plants because many of the best varieties of roses produce but a weak growth in this climate when grown on their own roots.

By Bobbink & Atkins. Our selection of a dozen roses for the average amateur grower would be as

Hybrid Perpetuals - Baroness Rothschild, Capt. Christy, Frau Karl Druschki, Margaret Dickson, Prince Camille de Rohan and Ulrich Brunner. Hybrid Tea-Betty, Caroline Testout,

For winter forcing we recommend Mrs. George Shawyer, Sunburst, Killarney, Radiance, White Killarney, Killar-Queen, Killarney Brilliant, Milady, Lady Hillington, Mrs. Aaron Ward, Richmond and Double White Killarney.

To Be Continued Sunday, March 8.

Cordon fruit trees, fllustrated in Gardening Notes, January 18, are increasing in popularity every year. The trees are easily managed and can be grown against fences or buildings in gardens where the space is very lim- weeks. A large bed may be made by ited. The trees are trained in the nur- starting with a few plants and dividing sery where they are grown and when they leave the nursery should be perfeetly straight and thoroughly covered plums, peaches, apricots and nectarines can be grown in this way; also gooseberries and currants.

In planting remember that inferior trees, either fruit or ornamental trees. mean inferior results and the loss of time and money. Therefore in select-flowers 6 to 10 feet high. Elwesh is 2

Magna Charta—Bright pink, suffused ing stock the first consideration should newer variety with soft, rosy flowers be quality and the last consideration | 10 to 12 feet high.

Now is a good time to prune untidy ance of the specimen under treatment. remarkably free flowering, always does growths and then cut back the stragwell and stands very close to the top gling branches so as to secure a well

vety crimson-maroon, shaded scarlet; for sprouting, put in a light position every gardener should have a magnificent dark rose.

In a cool temperature, but safe from logue, which also includes other flow.

Urich Brunner-Bright cherry red; frost, will make a good growth and ering builts and the Ranere raspberry

Grand Collection of SIX HARDY ROSES FOR ONE DOLLAR

Imported from Holland. Regular price 50 cents each. Guaranteed finest stock, true to name.

American Beauty -Rich, rosy crimson, exquisitely shaded; too well known to need any de-

scription. rau Karl Drusch--Snow-white, buds perfectly formed; hand-

somest rose grown. Mme. Caroline Testout—Bright satiny rose, with brighter center; never tires blooming.

Soliel d'Or (Golden Sun)-Deep yellow, shaded with orange and red. Killarney-Flesh pink shaded white buds long and pointed; grandest ever-blooming pink rose.

Ulrich Brunner-Cherry-crimson large size; the only thornless rose worth growing.

On account of the size of these bushes we cannot send them by mail. Mention collection No. 1 and give correct name of express office

THE MACNIFF HORTICULTURAL CO. 56 Vesey Street, near Greenwich St. NEW YORK CITY.

Blackberry brings joy to all

brings joy to all who grow, sell or eat it.

It is more luscious in flavor than any other fliackberry I have ever grown, and is very large, being almost as thick through as it is long. The canes are of ironclad hardihood, so atrong as to need no staking, and bear heavily every year. In the winter of 1911-12 every fliackberry in my trial-grounds was damaged more or less except the JOY, which came through with every bud and terminal in perfect condition. In my long experience with this berry its canes have never been affected, even slightly, by orange rust or other disease. Headquarters for St. Regis Everbearing, the bestred Raspberry, and Caco, by far the choicest of all hardy Grapes. A full assortment of Strawberries, Raspberries, Blackberries, Grapes, Currants, Gooseberries, Carden Roots, Hardy Percennial Plants, Shrubs and Vines, Evergreen and Shade Trees, Roses, Hedge Plants, etc. Hiustrated descriptive catalog, replete with cultural instructions, free to everybody. Established 1878, 200 acres, Quality unsurpassed.

Prices low. J. T. LOVET

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Little Silver.

for house plants, window and porch boxes bot-beds and greenhouses, prepared in the richest agricultural county in the United States. Sample bag 100 lbs. \$1.00 f. o. b. Lancaster Pa. 7 lb. box, by mail, 25 cts.

RALPH W. COHO, Lancaster, Pa.

be ready for the first planting as soon as the ground can be prepared. Planted in this way the first crop will be ready

The Ranere raspberry is one of the earliest red raspberries in central New Jersey, ripening from June 15 to 20 It gives a crop of fruit all summer and autumn, fruiting on the old canes until well into August. By this time of the present year's growth, which are produced until severe frosts. The berries are bright crimson, of good size

W. Atlee Burpee & Co. of Philadelphia offer several very remarkable new sweet peas in their 1914 catalogue. Il as rich glowing cerise-salmon. The color is gorgeous, however it may be described. Wedgwood, a handsome light blue, is another grand sweet pea that will surely be popular. King White is undoubtedly the very best pure white sweet pea.

"What, Where, When and How to Plant" is a very interesting booklet, well illustrated, showing how to plant. prune and care for ornamental fruit trees, hedges, small fruits, roses perennial plants and bulbs and is well worth the small price asked for it. 10 cents. Published by P. Bohlender & Sons, Tippecanoe City, Ohio.

Cyclamen latifolium St. George is new variety recently announced in Engon the margins of the leaves, producing an effect similar to that furnished by some of the more decorative varieties of Begonia rex.

Eremurus are pretty, hardy, herbaceous, large, hyacinthlike perennials. flourishing in moderately good garden Etoile de France, Gruss au Tepiitz, soil. They are not as generally used Jonkheer J. L. Mock, Mme. Jules Gro- as they should be—in bold clumps in shrubbery, forming a background ca-pable of throwing into full relief their unique beauty-the surrounding foliage properly setting off their leafless flower stems, appearing during June and July Protection from the north and east te desirable owing to the early appear

ance of their foliage in spring. A peculiarity of these plants is that the roots form crown upon crown. finally lifting themselves to the surface. reas- making it necessary after a time to The replant, which should be done in Octo-

They remain in flower for severa the roots in the autumn and replanting Seeds may also be saved and planted soon after they mature, as they fruiting spurs. Apples, pears, lose their vitality. These should be planted in a cold frame and thinned out so the plants may grow on to the second year, when they may be trans planted in the autumn when dermant

Himalalcus bears creamy white flowers. 4 to 8 feet high. Robustus is a strong growing variety with rosy pi

Catalogues Received.

Auto spray, an automatic spraying or overgrown or scraggly shrubs. The instrument that is substantial refiesh; a beautiful rose in every respect. aim should be to improve the appear- able and reasonable in price and needed in every flower and vegetable gard tiful form; exceedingly fragrant and First out out all dead or decaying and for fruit and shade trees. E. C. Brown Company, Rochester, N. V

publish a wonderful catalogue of da lias. Their list includes many remar Early varieties of potatoes placed able new varieties and shades. Ever Prince Camille de Rohan-Deep vel- neatly in boxes, with eyes uppermost body succeeds in growing dahilas in a cool temperature, but safe from logue, which also includes other flow